Work Order June-12-13 9:25:		034		*10.3	3034*	: 						Page 1
	46.3315			Accept	*N9(	າດດ4	<b>೧</b> 1	<b>೧೧</b> *	Setu	p Start	*N.	S1*
Revision ID: Item Name:	Blade		ئ. مثر	a di						Stop	*N:	S2*
Start Date: 6	/11/13	Start Qty: 10.00	*10*		Cust It	tem ID:						
Required Date: 6 Reference:	/11/13	Req'd Qty: 10.00	*10*		Custon	ner:						
			Date: 13-010-13	Tooling: SPC (Y/N):		Date:			Run	Start Stop	"[7]	R1* R2*
	QC:		Date:	31 C (1/14).						<u>-</u>		R/
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool	ID Too	I# PI C	an Accorde Qty	-	Reject <u>)</u> ty	Reject Number	Insp. Stamp
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. 646.3300	N/C											
*100 *100* Bandsaw Jeaspa Bandsaw		BAND SAW  Memo  Cut Blank at	2.600"	0.00	MH	13/06/	122	10	ව	ø		
110 *110* HAAS I HAAS CNC vertical r	nachine #1	HAAS CNC VERTICAL  Memo  I-Machine p	er foljo,FB147	0.00	MH	13/	)e/	, ,	10 _	<u> </u>		· . <del></del> :
		DWG REV FOLIO REV	_N/C :_AA									1 •

2- deburr and break all sharp edges except otherwise noted

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	_					Use-as-is		1	noforming	Finishing			re/Packaging		Other
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	⊢	/larks/Ch				Drill Holes		Off-set			_				
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-	V	Vave/Tw	ist in Tub	e	1	Fit/Function	i	Out of 9	Sequence						

Work Orde June-12-13 9:25		3034		*103	3034*						Page 2
Revision ID:	646.3315		,	Accept	*N900	0040	100	)* s	etup Start Stop	1 71	S1* S2*
	Blade 6/11/13 6/11/13	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item Customer:						
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Sequence ID/ Work Center ID	)	Operation Description QC2-Inspect parts off ma	achine FAl/FAlB	Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty		Reject Number	Insp. Stamp
*120* QC Quality Control		Мето		0.00	MH	1360e	123	10	8		
130		QC8- Inspect parts - seco	nd check	0.00							
*130* QC Quality Control		• Мето		0.00				<u>10</u>			X13-6-

140

Outsource process - Heat Treat

0.00

\*140\* Outsource1

Memo

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Outsource process - Heat Treat

HEAT TREAT AS PER DWG, SEE NOTE #3

ISSUE P/O: <u>2035</u>4

\_CZ\_13/06/27\_60

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OA Claradi			Date:			WORK ORDER NON-	-C(	ONFO	RMANCE / UPDATE	187	ork Order up	ndata anly	AEROSPACE
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i	Cr	acks				Broken/Damage/Defect		Hardwa	are .		Part Incorred	rt	Temperature/Cure
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Work Orde June-12-13 9:2:		3034		*103	R034*					<b>-</b>	· · <u>-</u> - ·	Page 3	
Revision ID:	646.3315 Blade	<del></del>		Accept	*N900	<u>040</u>	100	)* s	Setup	Start Stop	*N:	51* 52*	— -,
Start Date: Required Date: Reference:	6/11/13 6/11/13	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Item 1 Customer:	ID:							:
Approvals:		in:		_		ate:		F		Start Stop	*NI *NI	R1*	
Sequence ID/ Work Center II 150 *150* Packaging Packaging	D	Operation Description Receive & Inspect for Da	mage & Mat'l Certs	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp	
155 *155* QC Quality Control		QC5- Inspect part comple Memo	eteness to step on W/O	0.00				/0		<del></del>		DAG 05	13.0 <del>0</del>
*160 *160* SprayPaint Spray Painting		Spray Painting per QSI00  Memo PRIME AS I	05 4.2 PER DWG, SEE NOTE #4	0.00				10		<u>ø_</u>	_Ø_	A) 13-8-1;	q

PRIMER BATCH: 12 6022

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Work Ord June-12-13 9:2		3034		*103	3034*						Page 4
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Sequence ID/ Work Center I 170 *170* QC Quality Control	ID	Operation Description QC14- Inspect Spray Pair Memo	nt	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp  ( 05 13 08 16
180 *180* Packaging Packaging		Identify as per dwg & Sto  Memo  ***iDENTIF	ock Location: HF	0.00 0.00 P-120 BY STAMPING P	# AND REV***			10	( <u> </u>	M.L.D	13-08-16
190 *190* QC		QC21- Final Inspection -	Work Order Release	0.00					13	18/20	2
Quality Control										MC3 1	3-08-16

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Picklist Print

June-12-13 9:25:39 AM

Work Order ID: 103034

Parent Item:

646.3315

Parent Item Name:

Blade

Start Date: 6/11/13

Required Date: 6/11/13

Page 1

Start Qty: 10.00

Required Qty: 10.00

Comments:

JPP REV:A NEW ISSUE 12/11/07 JFS VERIFY BY: JLM

Component Item JD/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MSTEEL-A2- B0.500X1.250 AISI A2 TOOL STEEL BA	AR, 0.500 X 1.250	Purchased	No		·	100	ſ	19.2556	0.217	2.284211			1
				Location		Loc Qty	<u>Lo</u>	c Code					

 Location
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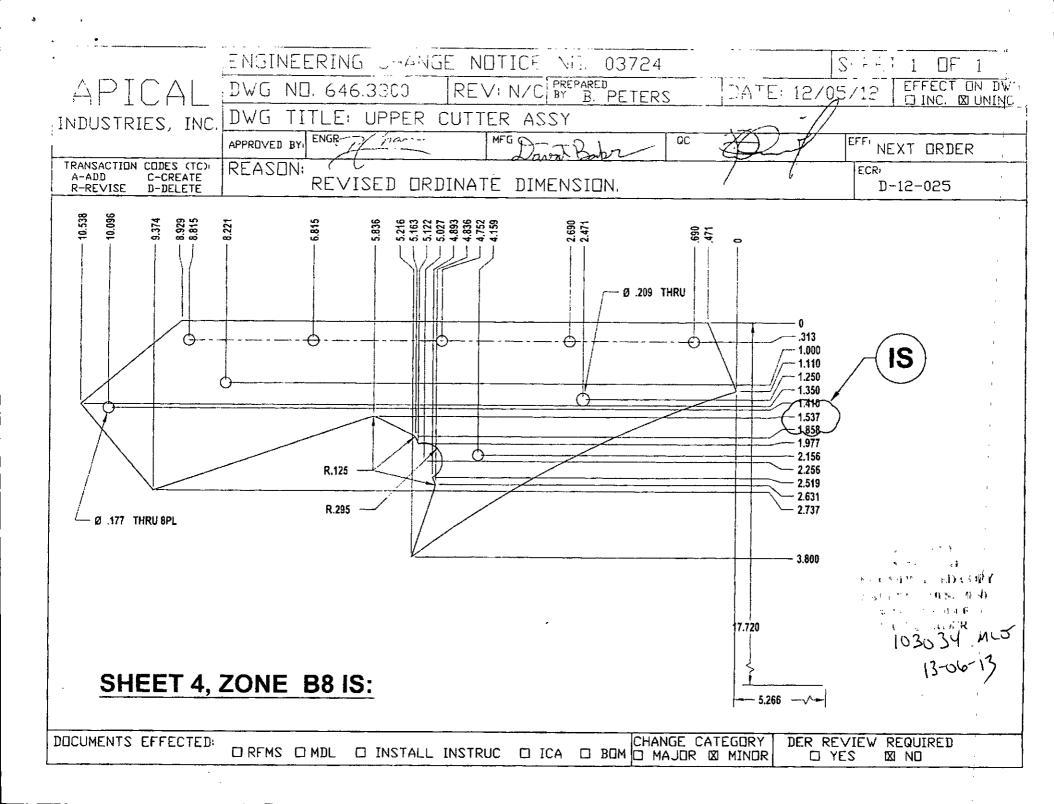
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	-					Rework	1		Skid-tube	Crosstube		1	Water Jet	$\Box$	Engineering
Part N	la.					Scrap	1	ľ	Machining	Small Fab	$\overline{}$	Pro	d. Eng. Coor.	$\dashv$	Quality
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	(	Crimp/Kin	nk/Ripple	/Wave		Burrs		Inspecti	ion Incomplete/L	Inqualified		Part Lost/Mi	ssing		Weld
	(	Cuffs				Contamination		Instruct	ions Incomplete	/Unclear		Part Moved			Wrong Stock Pulled
	(	Crushing				Countersink		Misalig	ned/off center			Positioned V			
		Heat Trea	it			Cut Too'Short		Mislabe	eled			Power Loss/:	Surge		Other
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[	7	Wave/Tw	ist in Tub	e		Fit/Function		Out of	Sequence						

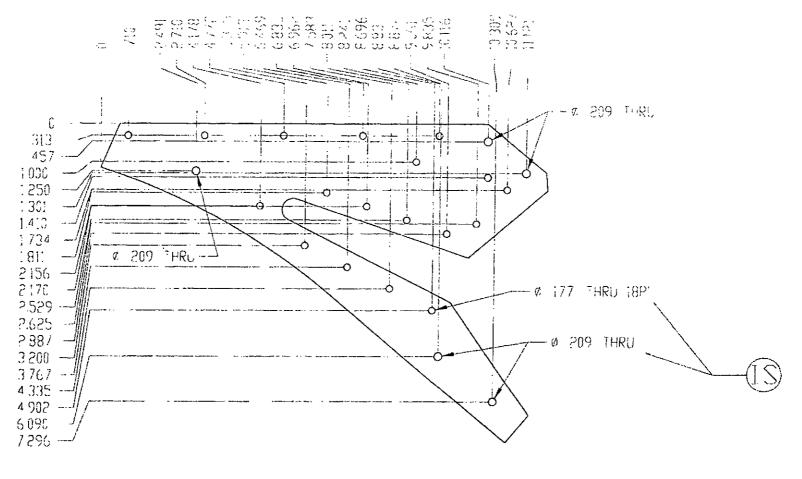


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IN	DU	STRIES, INC.	DW	GT	ITLE: UPPER GUTTER AS	
		·	APPRO	OVED B	Y: ENGR PSIANO MFG & Ball QC	EFF: NEXT ORDER
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10	R	601.1541		18	LOCKNUT	MS21042L08
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8	R	601.2764		36	WASHER	NAS1149FN832P
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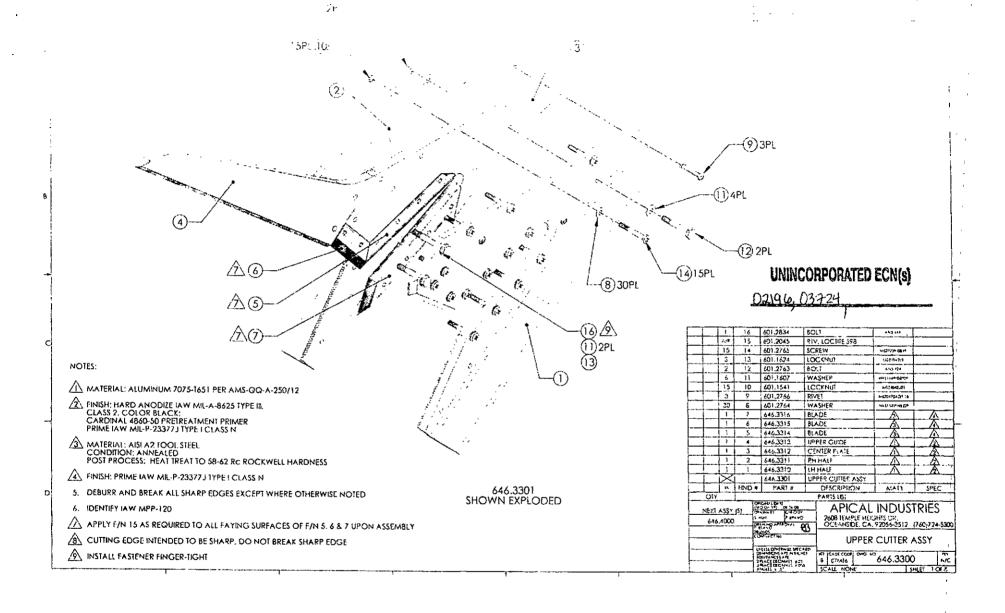
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SECTION A-A RES

F/N TC PART NUMBER QTY DESCRIPTION MATERIAL/SPECIFICATION

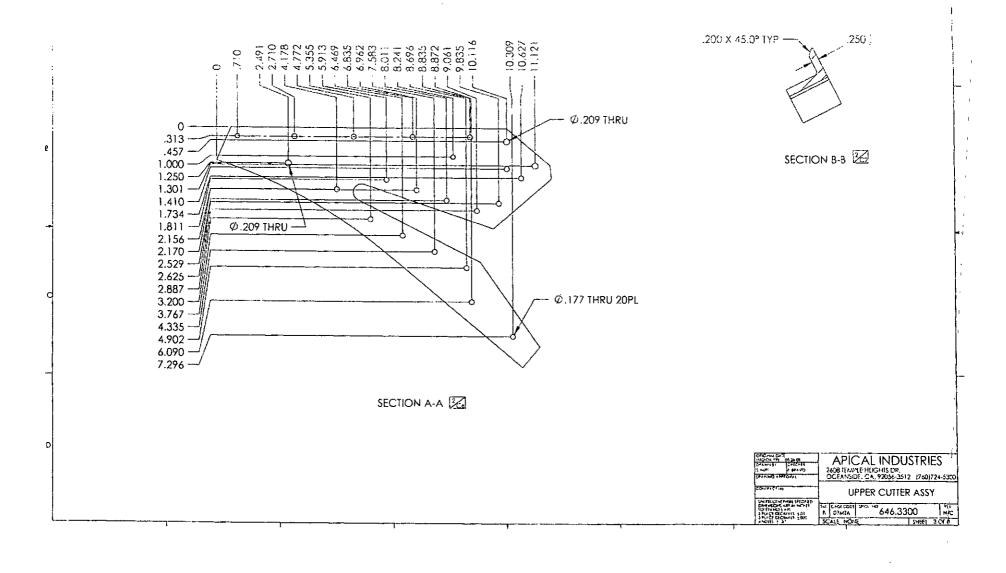
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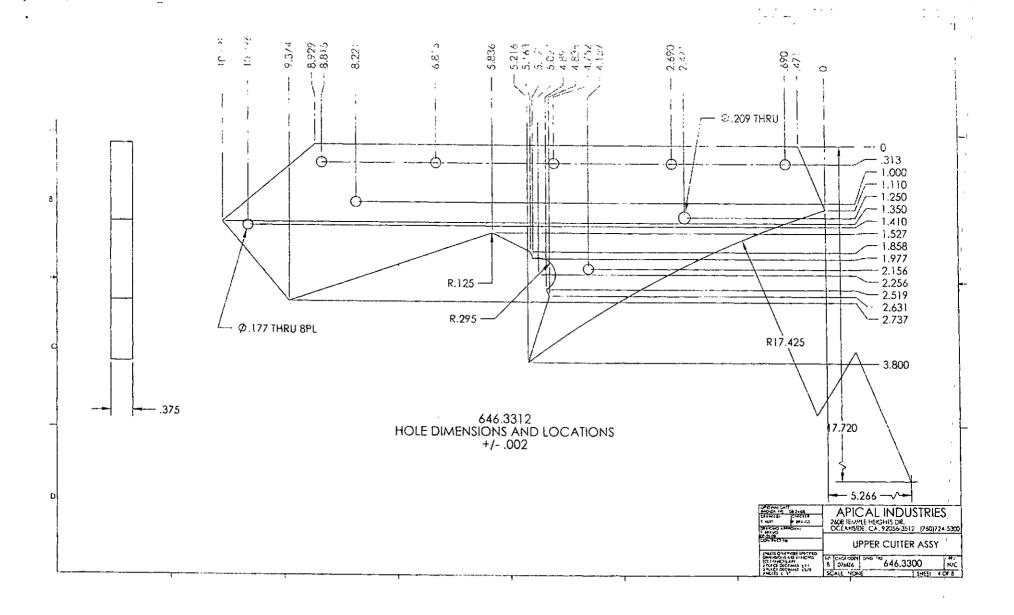
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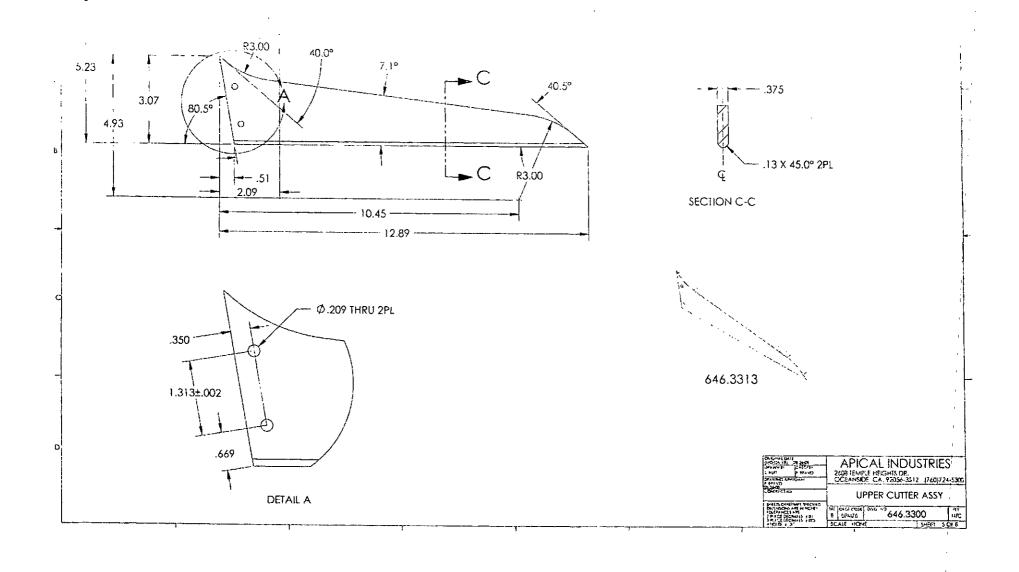
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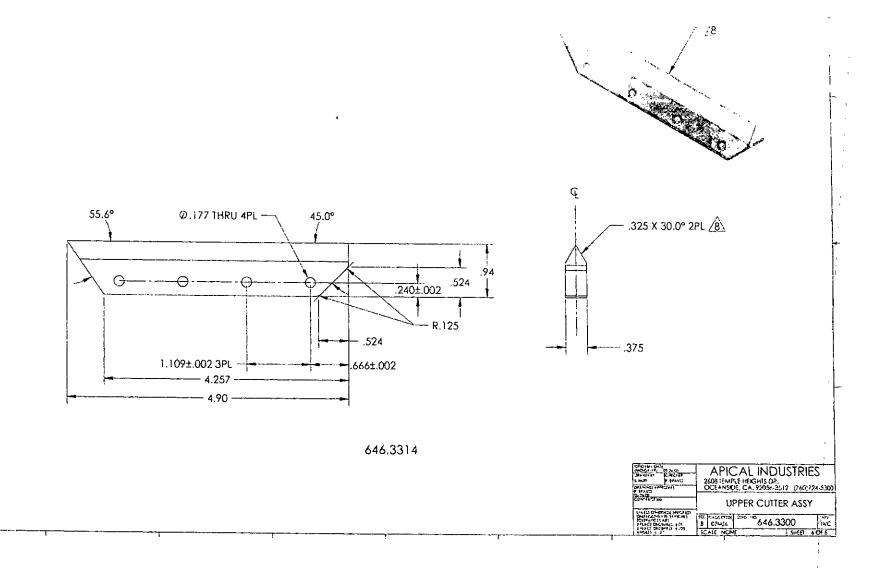
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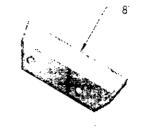
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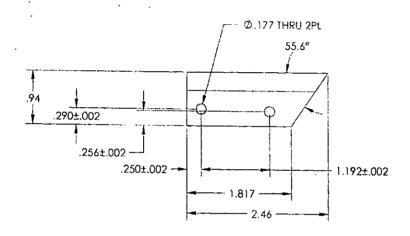


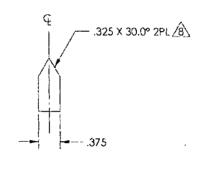
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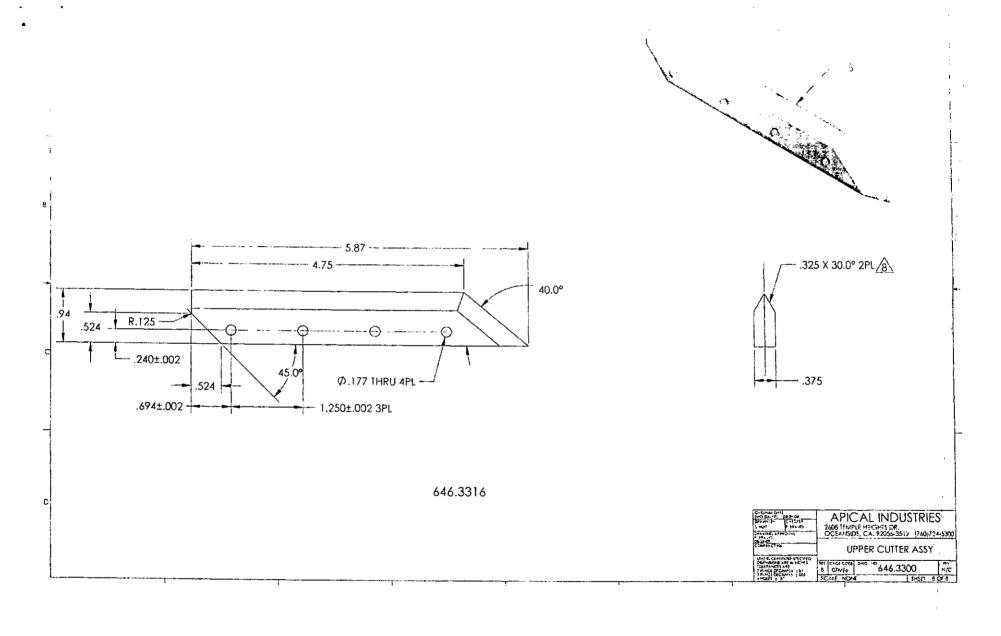




646.3315

		1
P HILL P BASO DOLONG ST CHAINS	APICAL INDUSTRIES	
P SP UG OD 2408	OCEANSIDE, CA 92056-3512 (760)724	5300
CLAPPACI NO	UPPER CUTTER ASSY	
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DART AEROSPACE LTD	Work Order: 1	०३०३५ 🏥
Description: Blade	Part Number: 6	46:3315
Inspection Dwg: Rev:		Page 1 of 1

### FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø.177	+.005 001	-1775	7		caliper	17H-04
. 94	1.060	. 935	1		k **	(( \
· 290	+ 003	-291	1		4 1	(( %
. 25B	£ .002	. 726 <b>2</b>	J		H W	a \\
025. AR	± .002	.150	J		10 11	
2.46	± - 010	. २.५५७	J		10 >>	/.
1-817	t.005	- 1.817	J		11 >>	10 ~
1-193	+ .002	1-192	٦		10 33	11 11 11
-375	t005	.375	J		11 ~	(i ) \( \)
55 -6 °	+ .50°	58 -6°	1		reporteur dianale	NH-03
600	t .50	600			raporteur d'angle raporteur d'ansle	MH-07
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Measured by: MH JONL	Audited by:	Preliminary Approval:
Date: 13/06/23	Date: 13-6-24	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

1 6 TO 

206-5000

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### METCOR INC.

560 BOUL. ARTHUR-SAUVÉ ST-EUSTACHE, QC J7R 5A8 Tel: 450-473-1884 / Fax: 450-491-5498

### Reçu de livraison

Delivery Receipt

BON DE TRAVAIL	EXPÉDITEUR	BON D'EXPÉDITION
Order	Shipper ID	Shipper
187593	1	72969

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT / Customer

215

DART AEROSPACE 1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

Ph: 613-632-5200 Fax: 613-632-1053 LIVRÉ À /Shipped To

**DART AEROSPACE** 

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

Ph: 613-632-5200 Fax: 613-632-1053

	100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to	Per	* * * * * * * * * * * * * * * * * * * *	2 4 1	A SECTION OF THE SECT		
COMMANDE I			DE LIVRAISO Customer Sh		TYPE DE MATÉRIEI Material Type	DATE DE LA COMM Order Date	IANDE TRANSPORTEUR Carrier
PO203	354				A2	2013/6/28	FEDEX
QUANTITÉ Quantity	No. PIÈCE Part No.	1	NOM DE L Part N		DESCRIPTION D		POIDS Weight
30	646.3014						7,
	(10) BLAI	ÞΕ					
	REFERE	NCE	102901				
	(10) 646.3	3314		_			
	BLADE		400040				
	KEFEKE	MCF.	_103043_		·*		· · · · · ·
	(10) 646.;	3315					
	BLADES			}			
/	REFERE	<b>VCE</b>	103034	· · · · /			
1	MATERIA	L: /	<b>\</b> 2	· / /	·		
	58-62 RC						
				/			
	CONTEN	ANT	: 1_BOPTE	DE CART	ON		

CERTIFICAT

QUANTITÉ EXPÉDIÉE /Quantity Shipped: 30

POIDS EXPÉDIÉ / Weight Shipped: 7,00

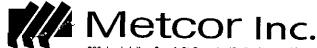
Signature:

Date:

EXPÉDIÉ LE / Shipped On: 2013/07/04

F-050-06 Rev. B

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560, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8 Tél. 450 473-1884 Télécopieur/Fax administration 450 491-5498 Télécopieur/Fax production 450 491-6454

#### Rapport d'Inspection

Inspection Report

	*
BON DE TRAVAIL order	CHARGEMENT load
187593	1

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON KBA 1K7

LIVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

COMMANDE DU CLIENT	BON DE LIVRAISON DU CLIENT	MATÉRIEL	CODE DE TRAITEMENT	NUMÉRO DE LOT	
customer po	CLISTOMET STIPPET NO.	material	mat'i heat code	lot number	
PO20354		A2			7

#### SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

VAC HARDEN

HARDEN AND TEMPER

EXIGENCE / requirement SPÉCIFICATIONS / specifiedTESTS EXÉCUTÉS / performed RÉSULTATS DE TESTS / results

HARDNESS 58 - 62 HRC 6 59.0 - 60.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
30	. 7	846.3014 (10) BLADE REFERENCE 102901
		(10) 646.3314 BLADE REFERENCE 103043
	₹. ₹. · ·	(10) 646.3315 BLADES REFERENCE 103034 MATERIAL: A2 58-62 RC
		CONTENANT: 1 BOÎTE DE CARTON

COMMENTAIRES / comments

CERTIFIÉ par / Certified by:

DATE: 2013-07-04

WillET

4				

# METCOR INC.

ST-EUSTACHE, QC, J7R 5A8

Tel: 450-473-1884 / Fax: 450-491-5498

## Certificat de Conformité Détailié

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
187593	1

1

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

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COMMANI			BON DE LIVRAISON ⊈cuştor <u>n</u> er <u>şhi</u> pj		MATÉ mate			RAITEMENT	1	O DE LOT
PC	020354				A2	2 .			<del> </del>	
VAC HARDI	SPÉCIFICATIONS DU PROCÉDÉ  processing specifications  /AC HARDEN									
HARDEN AI	ND TEMP	ER								
XIGENCE /	requireme	ent SP	ÉCIFICATIONS	/ specified	TESTS EX	KÉCUTÉS /	performed	RÉSULTA	TS DE TES	STS / regulte
HARDNESS	S	58	-62 HRC			6	1	59.0 - 60.0	HRC	710 / Tesuits
QUANTITÉ quantity		DIDS eight	DESCRIPTION Parts description	ON DES PI	ÈCES					
;	30	7	646.3014 (10) BLADE REFERENCI	≣ 102901						
			(10) 646.331 BLADE REFERENCI							
e.	-	,	(10) 646.331 BLADES REFERENCE MATERIAL: 58-62 RC	E 103034		-				
			CONTENAN	Γ: 1 BOÎTI	E DE CART	ON				
	emp. spécifiée Specified Temp	Temps de tre Spécifié Specified S Temp	, minospilore	Carbone Carbon Potential	Q-Media Q-Temp	Four # Furnace #	Date Départ Start Date	Heure d'entrée Time In	Heure de sortie Time Out	Date Complétée Date complete
1.00 ONT, INIT.	LAVAGE		si nécessaire							
2.00 C PREPARING	OMPTAGE			<del></del>						

393

393

3.00

4.00

PREHEAT 1

PREHEAT 2

1200

1500

0:30

0:30

VAC

VAC



# METCOR INC. 560 BOUL. ARTHUR-SAUVÉ ST-EUSTACHE, QC, J7R 5A8

Tel: 450-473-1884 / Fax: 450-491-5498

# Certificat de Conformité Défaillé Detailed Certificate of Compliance

	¥
BON DE TRAVAIL order	CHARGEMENT load
187593	1

1

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

Operation	Temp. spécifiée Specified Temp	Specified Soak	Atmosphere	Carbone Carbon Potential	Q-Media Q-Temp	Four# Furnace#	Date Depart Start Date	Heure d'entrée Time in	Heure de sortie Time Out	Date Complétée Date complete
5.00 VAC HARDE	1800	1 hrs	VAC		AZOTE	393				
6.00 TEMPER	400+/-10°F	2 hrs	air			653	<u>                                     </u>			
7.00 TEMPER 2	400+/-10°F	2 hrs	air			653				
8.00 HARDN INS		-								
9.00 FINAL INSP				· · · · · · · · · · · · · · · · · · ·			07-04-2013			07-04-2013

### **COMMENTAIRES / comments**

Le traitement thermique a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de traitement thermique ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandées ont été faites et documentés.

Aucun changement ou dérogation n'a été faite par rapport au traitement thermique demandé.

On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiés.

All the heat treatment processing performed on this order was accomplished using heat treatment equipment compliant with the requested heat treatment specification.

All the heat treatment operations were accomplished in accordance with the requested/required heat treatment specification and all required verifications test have been performed and documented.

No unauthorized changes or deviations to required heat treatment specifications or procedures have been performed. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:	T-b-Mb a Co	
parripproved by.	TOO ( PE S / METCOR)	DATE: 2013-07-05

/ Nous certifions que toute l'information comprise sur ce rapport est exacte et conforme aux requis du client./We certify that all the information on this report is exact and in accordance with the order requirements.

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